

METHOD AND APPARATUS FOR REDUCING PEAK TO AVERAGE  
POWER RATIO IN A MULTI-CARRIER MODULATION COMMUNICATION  
SYSTEM

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ABSTRACT

Amplitude values of data samples of a multi-carrier modulation  
signal are provided to a normalizer (306) that determines the maximum  
10 amplitude value and divides all the amplitude values by the maximum  
amplitude value to produce normalized amplitude values. The  
normalized amplitude values are then amplified by a hybrid amplifier  
(307) that amplifies smaller amplitudes linearly and larger amplitudes  
non-linearly. This reduces amplitude variations resulting in a MCM  
15 signal having a reduced peak to average power ratio (PAPR).